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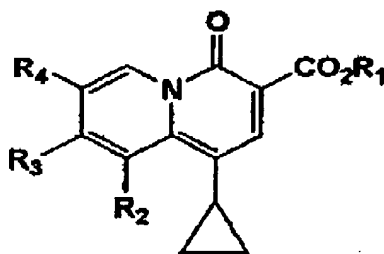
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of the claims in the application.

Listing of Claims:

1-2. (Cancelled)

3. (Currently Amended) A compound having the following formula (I) or a pharmacologically acceptable salt thereof:



wherein:

R₁ represents a hydrogen atom or a carboxyl-protecting group,

R₂ represents a hydrogen atom, a halogen atom, a lower alkyl group, a lower alkoxy group or hydroxyl group,

R₃ represents a thiophenyl or furyl group ~~or an aromatic group selected from the group consisting of 5-membered and 6-membered heterocyclic groups~~ and R₃ has a substituent selected from the group consisting of a hydrogen atom, a lower alkyl group, a lower alkoxy group, a nitro group, a cyano group, an amino group, a formyl group, an acyl acetyl group, a carbamoyl group, a ureido group, a halogen atom, a hydroxyl group and a carboxyl group, and

R₄ represents a hydrogen atom or a halogen atom.

4. (Previously Presented) The compound of claim 3 or the pharmacologically acceptable salt thereof, wherein in Formula (I), R₄ is a hydrogen atom or a fluorine atom.

5. (Previously Presented) The compound claim 3 or the pharmacologically

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acceptable salt thereof of, wherein in Formula (I), R_1 is a hydrogen atom.

6-8. (Cancelled)

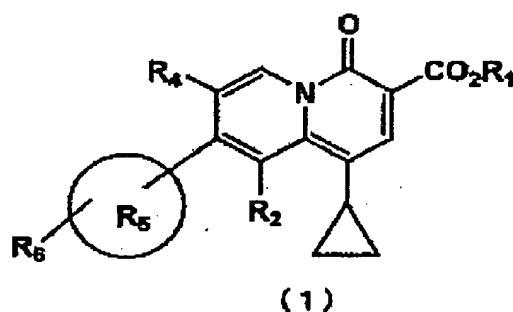
9. (Currently Amended) An antibacterial agent composition comprising the compound of claim 3 or the pharmacologically acceptable salt thereof, as an active ingredient.

10. (Currently Amended) The antibacterial agent composition of claim 9, where in Formula (I), R_4 is a hydrogen atom or a fluorine atom.

11. (Currently Amended) The antibacterial agent composition of claim 9, wherein in Formula (I), R_1 is a hydrogen atom.

12-14. (Cancelled)

15. (Currently Amended) A method preparing a compound having the following formula (1):



wherein:

R_1 represents a hydrogen atom or a carboxyl-protecting group,

R_2 represents a hydrogen atom, a halogen atom, a lower alkyl group, a lower alkoxyl group or hydroxyl group,

R_4 represents a hydrogen atom or a halogen atom.

R_5 represents a thiophenyl or furyl group ~~or an aromatic group selected from the group consisting of 5-membered and 6-membered heterocyclic groups, and~~

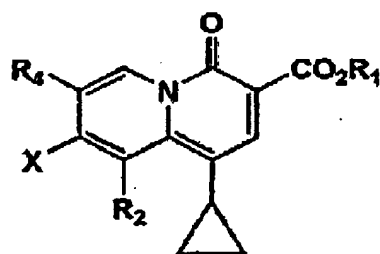
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R_6 represents a substituent selected from the group consisting of a hydrogen atom, a lower alkyl group, a lower alkoxy group, a nitro group, a cyano group, an amino group, a formyl group, an acetyl ~~acyl~~ group, a carbamoyl group, a ureido group, a halogen atom, a hydroxyl group and a carboxyl group, or the pharmacologically acceptable salt thereof,

said method comprising reacting a compound (2) having the following formula (2):



(2)

wherein:

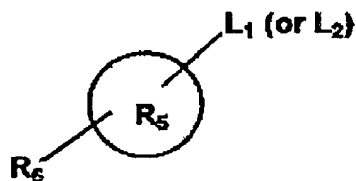
R_1 represents a hydrogen atom or a carboxyl-protecting group,

R_2 represents a hydrogen atom, a halogen atom, a lower alkyl group, a lower alkoxy group or hydroxyl group,

R_4 represents a hydrogen atom or a halogen atom, and

X represents a halogen atom,

with a compound having the following formula (3):



(3)

wherein:

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R_5 represents a thiophenyl or furyl group or an aromatic group selected from the group consisting of 5-membered and 6-membered heterocyclic groups,

R_6 represents a substituent selected from the group consisting of a hydrogen atom, a lower alkyl group, a lower alkoxy group, a nitro group, a cyano group, an amino group, a formyl group, an acetyl group, a carbamoyl group, a ureido group, a halogen atom, a hydroxyl group and a carboxyl group,

L_1 represents tin (alkyl group)₂, and

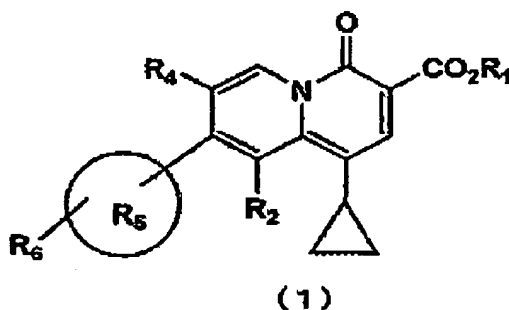
L_2 represents boron (lower alkoxy group)₂.

16. (Previously Presented) The method of claim 15, wherein in Formula (I), R_4 is a hydrogen atom or a fluorine atom.

17. (Previously Presented) The method of claim 15, wherein Formula (I), R_1 is a hydrogen atom.

18-20. (Cancelled)

21. (Currently Amended) A method of preparing a compound having the following formula (1):



wherein:

R_1 represents a hydrogen atom or a carboxyl-protecting group,

R_2 represents a hydrogen atom, a halogen atom, a lower alkyl group, a lower alkoxy group or hydroxyl group,

R_4 represents a hydrogen atom or a halogen atom,

R_5 represents a thiophenyl or furyl group or an aromatic group selected from

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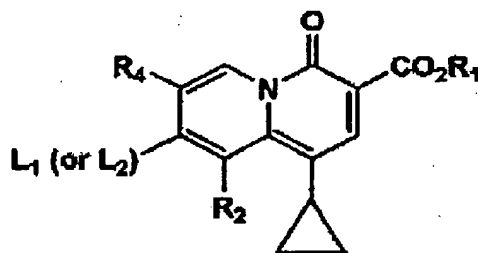
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~~the group consisting of 5-membered and 6-membered heterocyclic groups, and~~

R_6 represents a ~~substituent~~ substituent selected from the group consisting of a hydrogen atom, a lower alkyl group, a lower alkoxyl group, a nitro group, a cyano group, an amino group, a formyl group, ~~an acetyl group~~, a carbamoyl group, a ureido group, a halogen atom, a hydroxyl group and a carboxyl group, or the pharmacologically acceptable salt thereof,

said method comprising reacting a compound (2) having the following formula (2):



(2)

wherein:

R_1 represents a hydrogen atom or a carboxyl-protecting group,

R_2 represents a hydrogen atom, a halogen atom, a lower alkyl group, a lower alkoxyl group or hydroxyl group,

R_4 represents a hydrogen atom or a halogen atom,

L_1 represents tin (alkyl group)₂, and

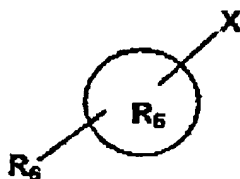
L_2 represents boron (lower alkoxy group)₂,

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with a compound having the following formula (3):



(3)

wherein:

R_5 represents a thiophenyl or furyl group ~~or an aromatic group selected from the group consisting of 5-membered and 5-membered heterocyclic groups, and~~

R_6 represents a substituent selected from the group consisting of a hydrogen atom, a lower alkyl group, a lower alkoxyl group, a nitro group, a cyano group, an amino group, an ~~acyl~~ acetyl group, a carbamoyl group, a ureido group, a halogen atom, a hydroxyl group and a carboxyl group, and

X represents a halogen atom.

22. (Previously Presented) The method of claim 21, wherein in Formula (I), R_4 is a hydrogen atom or a fluorine atom.

23. (Previously Presented) The method of claim 21, wherein in Formula (I), R_1 is a hydrogen atom.

24-25. (Cancelled)